

Version with Markings to Show Changes Made:

5 1. (Once amended) A plurality of laterally varying diodes each comprising an n-collector
region formed on a diode region, wherein each individual diode region has an
independently selectable depth including an ion-implanted portion, and each n-collector
region has a depth extending from the diode region to a contact surface that is co-planar
with the contact surfaces of the other n-collector regions, the plurality of laterally
varying diodes further comprising means for substantially electrically isolating each
individual diode.

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In regard to Claim 2, which depends from Claim 1, the Examiner noted that Seabaugh further discloses a diode region formed as a resonant tunneling diode region. The Applicant believes that the amendments to Claim 1 clarifies the invention and renders Claim 2 allowable.

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CLOSING REMARKS:

Applicant respectfully submits, in light of the above amendments and remarks, that
20 Claims 1 and 2 are now in allowable condition. Applicant thus respectfully requests
timely allowance of the pending claims.

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Deleted: ving a contact surface
opposite the diode region and

Deleted: the contact surface to

Deleted: with each individual diode
having an independently selectable
portion of the depth including an ion-
implanted portion,

Deleted: including

In the event the Examiner wishes to discuss any aspect of this response, or believes that a conversation with either the Applicant or Applicant's representative would be beneficial the Examiner is encouraged contact the undersigned at the telephone number indicated
5 below.

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Respectfully submitted,



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